

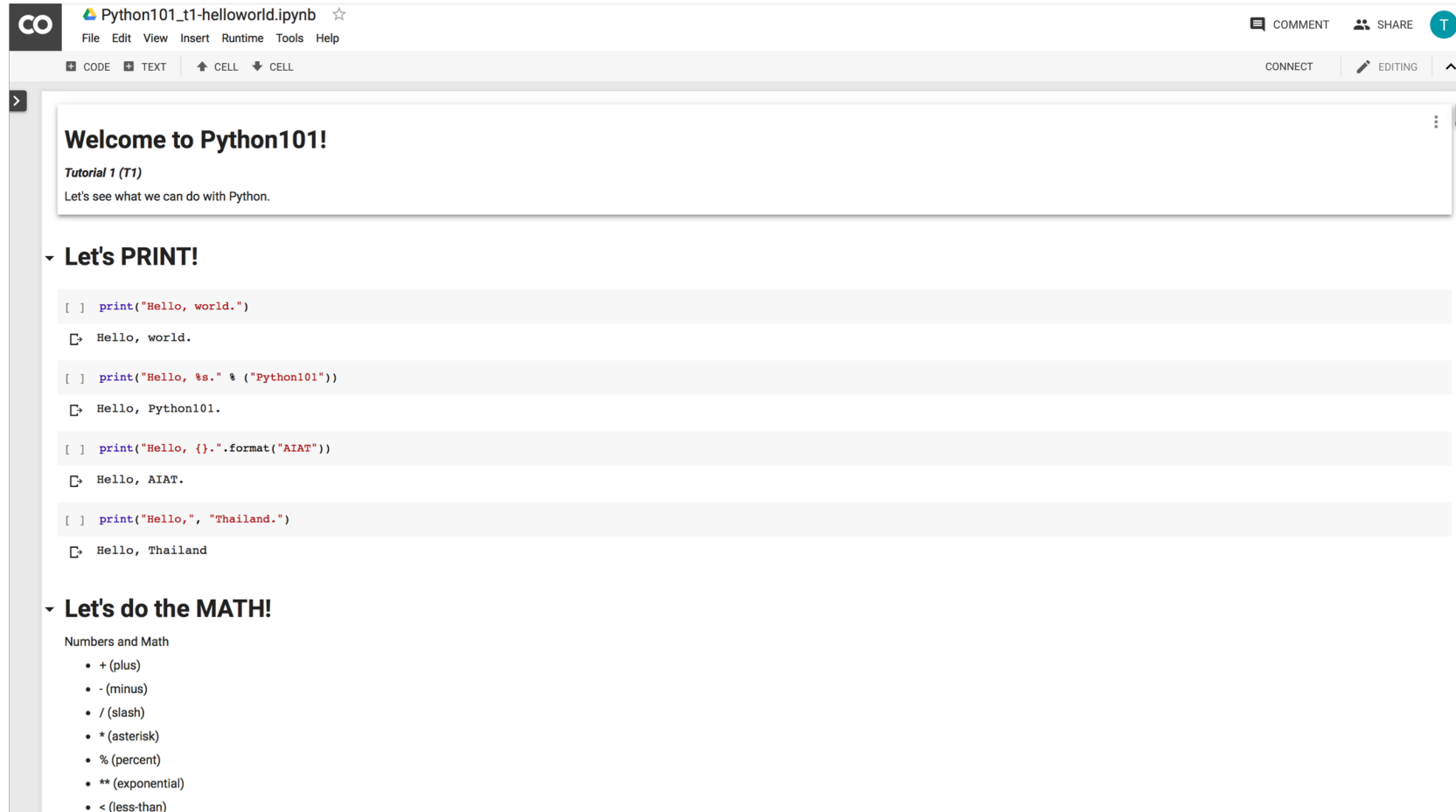
Python 101 x Scipy

Meet Google Colaboratory

AIAT Academy

What is Google Colab

<https://colab.research.google.com/>



The screenshot shows a Google Colab notebook interface. At the top, the title bar reads 'Python101_t1-helloworld.ipynb' with a star icon. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. To the right of the menu bar are buttons for 'COMMENT', 'SHARE', and a user profile icon. Below the menu bar is a toolbar with 'CODE', 'TEXT', 'CELL', and 'CELL' buttons. The main content area is divided into sections. The first section is titled 'Welcome to Python101!' and contains the text 'Tutorial 1 (T1)' and 'Let's see what we can do with Python.' The second section is titled 'Let's PRINT!' and contains four code cells, each with a Python print statement and its output. The third section is titled 'Let's do the MATH!' and contains a list of arithmetic operators.

Welcome to Python101!
Tutorial 1 (T1)
Let's see what we can do with Python.

Let's PRINT!

```
[ ] print("Hello, world.")
```

Hello, world.

```
[ ] print("Hello, %s." % ("Python101"))
```

Hello, Python101.

```
[ ] print("Hello, {}".format("AIAT"))
```

Hello, AIAT.

```
[ ] print("Hello, ", "Thailand.")
```

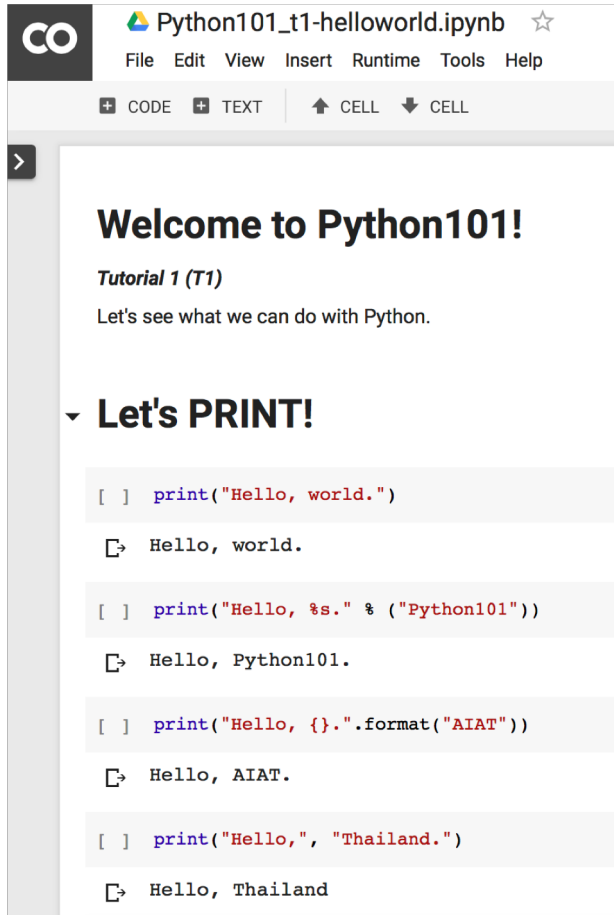
Hello, Thailand

Let's do the MATH!

Numbers and Math

- + (plus)
- - (minus)
- / (slash)
- * (asterisk)
- % (percent)
- ** (exponential)
- < (less-than)

Google Colab vs. Others standalone IDE



```
Python101_t1-helloworld.ipynb
File Edit View Insert Runtime Tools Help

CODE TEXT CELL CELL

Welcome to Python101!
Tutorial 1 (T1)
Let's see what we can do with Python.

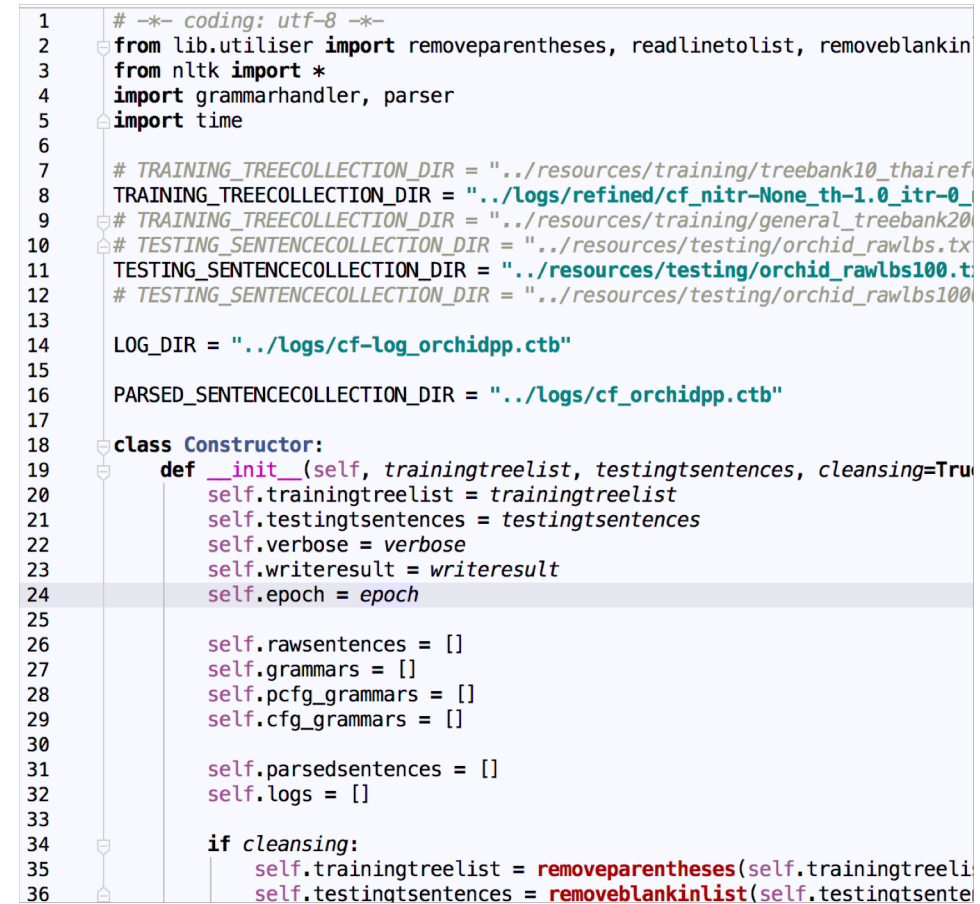
Let's PRINT!

[ ] print("Hello, world.")
Hello, world.

[ ] print("Hello, %s." % ("Python101"))
Hello, Python101.

[ ] print("Hello, {}".format("AIAT"))
Hello, AIAT.

[ ] print("Hello,", "Thailand.")
Hello, Thailand
```



```
1  # -*- coding: utf-8 -*-
2  from lib.utiliser import removeparentheses, readlinetolist, removeblankin
3  from nltk import *
4  import grammarhandler, parser
5  import time
6
7  # TRAINING_TREECOLLECTION_DIR = "../resources/training/treebank10_thairef
8  TRAINING_TREECOLLECTION_DIR = "../logs/refined/cf_nitr-None_th-1.0_itr-0_
9  # TRAINING_TREECOLLECTION_DIR = "../resources/training/general_treebank20
10 # TESTING_SENTENCECOLLECTION_DIR = "../resources/testing/orchid_rawlbs.tx
11 TESTING_SENTENCECOLLECTION_DIR = "../resources/testing/orchid_rawlbs100.t
12 # TESTING_SENTENCECOLLECTION_DIR = "../resources/testing/orchid_rawlbs100
13
14 LOG_DIR = "../logs/cf-log_orchidpp.ctb"
15
16 PARSED_SENTENCECOLLECTION_DIR = "../logs/cf_orchidpp.ctb"
17
18 class Constructor:
19     def __init__(self, trainingtreelist, testingtsentences, cleansing=True
20         self.trainingtreelist = trainingtreelist
21         self.testingtsentences = testingtsentences
22         self.verbose = verbose
23         self.writeresult = writeresult
24         self.epoch = epoch
25
26         self.rawsentences = []
27         self.grammars = []
28         self.pcfg_grammars = []
29         self.cfg_grammars = []
30
31         self.parsedsentences = []
32         self.logs = []
33
34     if cleansing:
35         self.trainingtreelist = removeparentheses(self.trainingtreeli
36         self.testingtsentences = removeblankinlist(self.testingtsente
```

Google Colab x Pycharm (IDE)

Tutorials and exercises

Google Colab

- <http://bit.ly/2Om03r5>

Github

- <https://github.com/tchayintr/Python101-scipy>
- <http://bit.ly/2QfkALs>